

# Brown and Caldwell BORING LOG

Project Name:Yerington Second Step Hydrogeologic Framework Assessment									Project Number:132025					
Soil 1	Boring	: M	Ionitoring Well: X Piezomet	er: Boring/Well	ΙNι	ımbe	r: _B/	W-16		Sheet <u>1</u> of <u>16</u>				
Bori	ng Loc	cation: Loc	ated 1/4 mile east of Luzier Land and	d Haul Road junction.			thing:	0 FI		Easting:				
Drill	ing Co	ontractor:	Boart Longyear	Driller: R. Salois		Gro	ound St	ırface	vation: feet a Elevation: fe	eet amsl				
Drill	ing Eq	uipment:	GP24-300RS	Borehole Diameter:6-inches	;		e Start		)/2/07	Date Finished: 10/6/07				
Drill	ing Mo	ethod: Son	nic	Drilling Fluid: Water		Cor Dep	npleted oth:	295	5 fbgs	Water Depth: fbmp				
Sam	pling N	Method:	Core Barrel			******				STRUCTION				
Well	Seal:	Bentonite	and Cement			Typ of V	e and I Vell Ca	Diame sing:	eter 2-inch Sch	nedule 80 PVC				
Logg	ged By	: R. Banda	a			Slot	Size:	0.010	inch Filter Ma	aterial: #10-20 Silica Sand				
Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Do	escription	Sample Name	Sample Location	Lithology	Well Construction		Remarks				
-		SW-SM	Well-Graded Sand with Sil Dry, loose, no odor. Primar with ~15% gravel to 20 mm a gravel is angular to subangul to subangular to subrounded have a light brown color, and HCI.	ily medium to fine sand and ~15% silt and clay.The ar and the sand is angular . The fines are nonplastic,					Method D-248 grain-size det based on the System.	drilled cuttings based on ASTM (the visual-manual procedure), erminations and nomenclature Unified Soil Classification				
- 5-		SW-SM	Well-Graded Sand with Sil Dry, loose, no odor. Primar with ~5% gravel to 30 mm ar gravel is angular to subangul subangular to subrounded. have a light brown color, and	ily medium to fine sand nd ~10% silt and clay. The ar and the sand is The fines are nonplastic,					Nevada State zone, in feet.  Sharp contact gradational contact depths are otherwise.  WELL DESIGNET PVC Stickup: Cement - Ber	ntonite Grout: 0 - 181 feet				
-		SW-SM	Well-Graded Sand with Sil Dry, medium dense, no odd fine sand with ~15% gravel to and clay. The sand and grav subangular. The fines are no strong reaction to HCI.	or. Primarily medium to o 20 mm and ~15% silt rel are angular to					No. 60 Silica #10-20 Silica 2-inch Nomin: Slotted Scree Native Collap: Additional Be	ps: 181 - 186 feet Sand: 186 - 187 feet Sand Filter Pack: 187 - 213 feet al Schedule 80 PVC 0.010 n: 190 - 210 feet se: 220 - 295 feet ntonite Fill: 213 - 220 feet ells at this location: 1 als for paired wells are labeled at				
-		SM	Silty Sand (10 - 12.5)  Dry, medium dense, no odd fine sand with ~10% gravel to and clay. The sand and graves subangular. The fines are no strong reaction to HCI.	o 15 mm and ~25% silt rel are angular to			- (6 19		the installed d					
-		SW	Well-Graded Sand with Gr Dry, dense, no odor. Prima with ~30% gravel to 15 mm a sand and gravel are angular are nonplastic, have a light b strong reaction to HCI.	rily medium to fine sand and ~5% silt and clay. The to subangular. The fines										

Proj	ect Na	me: <u>Yen</u>	rington Second Step Hydrogeologic Framework Assessment		_		Pı	oject Number: 132025
Soil I	Boring	;: M	fonitoring Well: X Piezometer: Boring/We	ll Nui	nbe	r: <u>B</u>	/W-16	Sheet <u>2</u> of <u>16</u>
Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
20 —		ML SW-SM	Sandy Silt (19.5 - 21) Dry, medium dense, no odor. Primarily silt and clay with ~35% medium to fine sand to 7mm. The sand is angular to subangular. The fines are nonplastic, have an orange brown color, and have a strong reaction to HCI.  Well-Graded Sand with Silt and Gravel (21 - 23) Dry, medium dense, no odor. Primarily coarse sand with ~30% gravel to 30 mm and ~10% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, have a light brown color, and have a strong reaction to HCI.  Silty Sand (23 - 33.5) Dry, very dense, no odor. Primarily medium to fine sand with ~10% gravel to 7 mm and ~20% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, have a light brown color, and have a strong reaction to HCI. Some cobblestone sized pieces of volcanic tuff from 25 - 30					
		014	Silty Sand (33.5 - 36.5)	+				

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Soil I	Boring	: M	Ionitoring Well: X	Boring/Well	/ell Number:B/W-16 Sheet _3 _ of								
Depth (ft)	Elevation (ft)	USCS Group Symbol	Ма	terial Description		Sample Name	Sample Location	Lithology	Well	Construction	I	Remarks	
35-			sand with ~5% grav	no odor. Primarily mediuvel to 30 mm and ~30% el are angular to subanga, and have a strong read	silt and clay. ular. The								
-		ML	~30% medium to fi The sand and grave	38) no odor. Primarily silt an ne sand and ~5% grave el are angular to subang c, and have a strong rea	l to 60 mm. ular. The			:-10-16					
40-		SM	sand with ~15% gradus clay. The sand and	ravel (38 - 43.5) no odor. Primarily coarse avel to 25 mm and ~30% of gravel are angular to se lastic, and have a strong	% silt and ubangular.								
45-		ML	~40% coarse to fine The sand and grave	no odor. Primarily silt an e sand and ~10% grave el are angular to subang c, have a light brown colo	l to 10 mm. ular. The								
_		ML	with ~20% medium mm. The sand and	B) se, no odor. Primarily sil to fine sand and ~5% g d gravel are angular to si lastic, and have a strong	ravel to 10 ubangular.								
-		ML	~40% coarse to fine The sand and grave	no odor. Primarily silt an e sand and ~10% grave el are angular to subang c, have a light brown colo	l to 10 mm. ular. The								
50 — - -		SM	sand with ~10% gradus clay. The sand and	5.5) no odor. Primarily mediu avel to 15 mm and ~309 d gravel are angular to si lastic, and have a strong	% silt and ubangular.								

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Soil 1	Boring	:[ M	fonitoring Well: X Piezometer: Boring/Wel	l Nur	nbe	r: <u> </u>	/W-1b	Sheet <u>4</u> of <u>16</u>
Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
55-								
-		SM	Silty Sand (55.5 - 57)  Dry, very dense, no odor. Primarily medium to fine sand with ~5% gravel to 10 mm and ~40% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have a strong reaction to HCI.					
-		SM	Silty Sand (57 - 59)  Dry, very dense, no odor. Primarily medium to fine sand with ~10% gravel to 15 mm and ~30% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have a weak to strong reaction to HCl.					
60-		SM	Silty Sand (59 - 69)  Dry, very dense, no odor. Primarily medium to fine sand with ~10% gravel to 40 mm and ~30% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have a weak reaction to HCI.	-				
65								
70- -		ML	Sandy Silt (69 - 72) Dry, dense, no odor. Primarily silt and clay with ~45% fine to medium sand and 5% coarse sand to 7 mm. The sand is angular to subangular. The fines are nonplastic, and have a strong reaction to HCl.			1,1,1,1		

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Soil Bo	oring:	M	fonitoring Well: X Piezometer: Boring/Well	Nur	nbe	r: <u>B</u>	/W-16	Sheet <u>5</u> of <u>16</u>
Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well	Remarks
-	-	ML	Sandy Silt (72 - 73.5) Dry, very dense, no odor. Primarily silt and clay with ~25% medium to fine sand and ~5% gravel to 10 mm. The sand and gravel are angular to subangular. The fines are nonplastic, have a light brown color, and have			<b>a</b> aa		
75-		SM	a strong reaction to HCI.  Silty Sand (73.5 - 80)  Dry to moist, very dense, no odor. Primarily medium to fine sand with ~5% gravel to 75 mm and ~40% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, have a brown color, and have a strong reaction to HCI.					
80 —	-	SM	Silty Sand (80 - 81.5)  Dry, very dense, no odor. Primarily medium to fine sand with ~5% gravel to 10 mm and ~30% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have a strong reaction to HCI.					
-		SM	Silty Sand (81.5 - 95) Dry, very dense, no odor. Primarily medium to fine sand with ~5% gravel to 75 mm and ~40% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have a strong reaction to HCI.					
85 —								
90-								

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Soil	Boring	;:	fonitoring Well: X Piezometer: Boring/We	ll Nur	nbe	r: <u> </u>	s/W-16	Sheet <u>6</u> of <u>16</u>
Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
95-		SM	Silty Sand (95 - 103.5)  Dry, very dense, no odor. Primarily medium to fine sand with ~10% gravel to 10 mm and ~30% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have a strong reaction to HCI.					
100-								
105-		SM	Silty Sand (103.5 - 107)  Dry, very dense, no odor. Primarily medium to fine sand with ~10% gravel to 15 mm and ~40% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, have a light brown color, and have a strong reaction to HCI.					
		SM	Silty Sand (107 - 115)  Dry, very dense, no odor. Primarily medium to fine sand with ~5% gravel to 15 mm and ~30% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have a weak to strong reaction to HCl.					

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Soil Boring: Monitoring Well: X Piezometer: Boring/Well Number: B/W-16 Sheet -										
Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks		
- - 1115 — -		SM	Silty Sand (115 - 117.5)  Dry, very dense, no odor. Primarily medium to fine sand with ~5% gravel to ~10 mm and 40% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have a weak reaction to HCl.  Silty Sand with Gravel (117.5 - 128)  Dry, very dense, no odor. Primarily medium to fine sand with ~15% gravel to >100 mm and 25% silt and							
- 120 - - - -			clay. The sand and gravel are angular to subangular. The fines are nonplastic, and do not react to HCl. Cutting through boulders of tuff and granite.							
125 - - -		CL	Sandy Lean Clay (128 - 130)							
_			Dry, very dense, no odor. Primarily silt and clay with ~20% medium to fine sand with ~5% gravel to 7 mm. The sand and gravel are angular to subangular. The							

Proj	ect Na	me: Yer	ington Second Step I	Hydrogeologic Framework	Assessment		_		Pr	oject Number:132025	
Soil l	Boring	: M	Ionitoring Well: X	Piezometer:	Boring/Well	Nur	nbe	r: <u>B</u>	/W-16		Sheet <u>8</u> of <u>16</u>
Depth (ft)	Elevation (ft)	USCS Group Symbol	٨	Naterial Description		Sample Name	Sample Location	Lithology	Well Construction	Remarks	;
130		CL	Sandy Lean Cla Dry, very dense ~25% medium to The sand and gr	o medium plasticity and toubrown color, and do not reay (130 - 133)  e, no odor. Primarily silt are of fine sand and ~5% grave avel are angular to subanglasticity and toughness, hall have a weak reaction to help	eact to HCl.  nd clay with el to 7 mm. gular. The ave a light						
- 135 — -		SM	sand with ~10% clay. The sand a	e, no odor. Primarily coars gravel to 10 mm and ~40' and gravel are angular to s nplastic, have a light brow	% silt and subangular.						
- 140 — - -		CL	~30% medium to The sand and gr fines are nonplas	ay (137.5 - 154) e, no odor. Primarily silt are to fine sand and ~5% grave avel are angular to subang stic to low plasticity and to elor, and have a weak reac	el to 10 mm. gular. The ughness,						
- 145 — -											

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Soil 1	Boring	;: M	fonitoring Well: X Piezometer: Boring/Well	ll Nur	nbe	r: <u>B</u>	/W-16	Sheet <u>9</u> of <u>16</u>
Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
- 150 — -	-							
- - 155 –	-	SM	Silty Sand (154 - 156)  Dry, very dense, no odor. Primarily coarse to fine sand with ~5% gravel to 15 mm and ~40% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have a strong reaction to HCl.	,				
- - - 160 —	-	SM	Silty Sand (156 - 166) Dry, very dense, no odor. Primarily medium to fine sand with ~10% gravel to 20 mm and ~30% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have a weak to strong reaction to HCl.					
- - 165 — -	-	SW	Well-Graded Sand (166 - 169.5)  Dry to moist, very dense, no odor. Primarily medium to fine sand with ~50 gravel to 10 mm and ~10% silt and clay. The sand gravel are angular to	_				

Proj	ect Na	ıme: <u>Yer</u>	rington Second Step Hydrogeologic Framework Assessment		_		Pro	oject Number:132025				
Soil 1	Boring	;:[] M	Monitoring Well: X Piezometer: Boring/We	lumber:B/W-16 Sheet10								
Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well	Remarks				
-	-		subangular. The fines are nonplastic, have a light brown color, and do not react to HCl.									
170 - - -	-	CL	Sandy Lean Clay (169.5 - 173.5)  Dry, very dense, no odor. Primarily silt and clay with ~25% medium to fine sand and ~10% gravel to 15 mm. The sand and gravel are angular to subangular. The fines are nonplastic to low plasticity and toughness, have a light brown color, and have a weak to strong reaction to HCl.									
175-	-	SW	Well-Graded Sand (173.5 - 176) Moist, very dense, no odor. Primarily medium to fine sand with ~5% gravel to 10 mm and ~5% silt and clay. The gravel is angular to subangular and the sand is subangular to subrounded to rounded. The fines are nonplastic, have a brown color, and do not react to HCl.									
-	-	SM	Silty Sand (176 - 177.5)  Dry to moist, very dense, no odor. Primarily medium to fine sand with ~5% gravel to 10 mm and ~20% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, have a light brown color, and do not react to HCI.									
-	-	SW	Well-Graded Sand (177.5 - 184.5)  Moist, very dense, no odor. Primarily medium to fine sand with ~5% gravel to 15 mm and ~10% silt and clay. The gravel is angular to subangular and the sand is subangular to subrounded to rounded. The fines are nonplastic, have a brown color, and do not react to HCl.									
180 — - -	-											
185 -	_	SC	Clayey Sand with Gravel (184.5 - 196)  Moist to saturated, very dense, no odor. Primarily coarse to fine sand with ~20% gravel to 10 mm and ~35% silt and clay. The gravel is angular to subangular and the sand is angular to subangular to subangular to subangular and the sand is angular to subangular to HCl.									

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Soil 1	Boring	;: M	fonitoring Well: X Piezometer: Boring/We	ll Nui	nbe	r: <u>B</u>	/W-16	Sheet <u>11</u> of <u>1</u>					
Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks					
- - 190 — -								B/W-16 screened from 190 to 210 feet					
- 195 – - -		SC	Clayey Sand (196 - 205)  Moist to saturated, very dense, no odor. Primarily medium to fine sand with ~10% gravel to 10 mm and ~30% silt and clay. The gravel is angular to subangular and the sand is angular to subangular to subrounded. The fines are nonplastic, and have a weak reaction to HCI.										
 200  													
205-			Clayey Sand with Gravel (205 - 206)										

Proj	ect Na	ame: <u>Yer</u>	rington Second Step I	Hydrogeologic Framewor	rk Assessment		_		Pr	roject Number: _	132025			
Soil I	Boring	g: N	Monitoring Well: X	Piezometer:	Boring/Wel	l Nun	nbe	r: <u>B</u>	/W-16		Sheet _	12 of	f <u>16</u>	
Depth (ft)	Elevation (ft)	USCS Group Symbol	N	Material Description	ı	Sample Name	Sample Location	Lithology	Well Construction		Remarks			
_		SC	fine sand with ~ and clay.The gra sand is angular	y dense, no odor. Primar 15% gravel to 15 mm an- avel is angular to subang to subangular to subroun stic, and have a weak to	d ~20% silt ular and the nded. The	_								
- - 210 <i>-</i> -			clay with ~25% to 10 mm.The grand is angular fines are nonpla	ay (206 - 214.5) ery dense, no odor. Prim medium to fine sand with ravel is angular to subang to subangular to subroun stic, have a dark brown of to HCl. Zone is moist fro	n ~10% gravel gular and the nded. The color, and have									
- -														
215— - -		SM	sand with ~10% clay. The sand	4.5 - 218.5) e, no odor. Primarily mee o gravel to 10 mm and ~3 and gravel are angular to onplastic, and have a stro	80% silt and o subangular.									
- 220 — - -		SM	Moist, very der sand with ~20% clay. The sand the fines are no	n Gravel (218.5 - 223.5) nse, no odor. Primarily m o gravel to 10 mm and ~2 and gravel are angular to onplastic, have a dark bro n to a weak reaction to Ho	nedium to fine 20% silt and o subangular. own color, and	-								
-	-	SM	Silty Sand (223 Dry, very dens	3.5 - 226) e, no odor. Primarily me	dium to fine									

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Soil l	Soil Boring: Monitoring Well: X Piezometer: Boring/Well Number: B/W-16 Sheet 13 of 16										
Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well	Remarks			
225-			clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have a strong reaction to HCl.								
-		SM	Silty Sand (226 - 229) Dry to moist, very dense, no odor. Primarily coarse to fine sand with gravel to 20 mm. The sand and gravel are angular to subangular. The fines are nonplastic, have a brown color, and have no reaction to a weak reaction to HCI.								
230-		SW	Well-Graded Sand with Gravel (229 - 230.5) Dry, very dense, no odor. Primarily fine sand ( < 1/2 mm) with ~20% gravel to 10 mm and ~15% silt and clay. The sand and gravel are subangular to subrounded. The fines are nonplastic, have a light brown color, and do not react to HCI.								
-		SM	Silty Sand (230.5 - 237)  Dry to moist, very dense, no odor. Primarily medium to fine sand with ~10% gravel to 10 mm and ~25% silt and clay. The gravel is angular to subangular and the sand is angular to subangular to subrounded. The fines are nonplastic, have a brown color, and have no reaction to a weak reaction to HCl. There are 1/2" pieces of granite and tuff at ~234' bgs.								
235 <del>-</del>											
-		SP	Poorly Graded Sand (237 - 239)  Moist, very dense, no odor. Primarily medium to fine sand with no gravel and ~10% silt and clay. The sand is subangular to subrounded to rounded. The fines are nonplastic, have a brown color, and do not react to HCl.								
240-		SM	Silty Sand (239 - 240) Dry to moist, very dense, no odor. Primarily medium to fine sand with ~10% gravel to 10 mm and ~25% silt and clay. The gravel is angular to subangular and the sand is angular to subangular to subrounded. The fines are nonplastic, have a brown color, and have no	-							
-	_	SM	reaction to a weak reaction to HCI.  Sandy Lean Clay (240 - 240.5)  Moist, very dense, no odor. Primarily silt and clay with ~35% medium to fine sand and very little gravel up to 7 mm. The sand and gravel are subangular to subrounded. The fines are nonplastic to low plasticity and toughness, and do not react to HCI.  Sandy Lean Clay with Gravel (240.5 - 241.5)	-							

Proj	ect Na	me: <u>Yer</u>	ington Second Step Hydrogeologic Framework Assessment		_		Pro	oject Number:132025
Soil 1	Boring	<u>;:</u> M	Industrial Mell: A Piezometer: Boring/Well	Nun	nbe	r: <u>B</u>	/W-16	Sheet <u>14</u> of <u>16</u>
Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well	Remarks
245-			Dry, very dense, no odor. Primarily silt and clay with ~15% coarse sand and ~15% gravel to 30 mm. The sand and gravel are angular to subangular. The fines are nonplastic to low plasticity and toughness, have a dark brown color, and do not react to HCl. There are pieces of granite in the sample.  Silty Sand with Gravel (241.5 - 249)					
-			Dry, very dense, no odor. Primarily medium to fine sand with ~15% gravel to 30 mm and ~30% silt and clay. The gravel is angular to subangular and the sand is angular to subangular to subrounded. The fines are nonplastic, have a brown color, and have a weak to strong reaction to HCl.					
250 –		SM	Silty Sand with Gravel (249 - 251) Dry to moist, very dense, no odor. Primarily coarse to fine sand with ~20% gravel to 25 mm and ~40% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have a weak reaction to HCl.					
_	-		Weathered Granite (251 - 253)  Dry, very dense, no odor. Possibly a boulder or bedrock with little clay matrix. Zone hasand white and pink color and has a weak reaction to HCl.					
- 255 –		CL	Sandy Lean Clay (253 - 256)  Moist, soft, no odor. Primarily silt and clay with ~20% medium to fine sand with ~5% gravel. The sand and gravel are angular to subangular. The fines have low plasticity and toughness, have a dark brown color, and have no reaction to a weak reaction to HCI.					
-		SM	Silty Sand (256 - 257) Dry to moist, soft, no odor. Primarily medium to fine sand with ~5% gravel to ~10 mm and 30% silt and clay. The sand and gravel are angular to subangular. The					
-		CL	fines are nonplastic, have a dark brown color, and have a weak reaction to HCl.  Sandy Lean Clay (257 - 259)  Moist, soft, no odor. Primarily silt and clay with~20% medium to fine sand with ~5% gravel. The sand and gravel are angular to subangular. The fines have low					
260-		SM	plasticity and toughness, have a dark brown color, and have no reaction to a weak reaction to HCl.  Silty Sand with Gravel (259 - 260.5)  Moist, dense, no odor. Primarily coarse sand with~15% gravel to 15 mm and ~20% silt and clay.  The sand and gravel are angular to subangular. The fines are nonplastic, have a dark brown color, and have					
_	-	SM	\a weak reaction to HCl.  Volcanic Tuff (260.5 - 261)  Dry, dense, no odor. Zone has white color and a weak reaction to HCl.There is a weak reaction to the			, O.		

Proj	ect Na	me: Ye	erington Second Step Hydrogeologic Framework Assessment		_		Pr	oject Number:132025
Soil I	Boring	;:[ N	Monitoring Well: X Piezometer: Boring/We	ell Nui	mbe	r: _B	/W-16	Sheet <u>15</u> of <u>16</u>
Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
			HCI.	$\top$		0.00		
- 265—			Silty Sand with Gravel (261 - 265) Dry, very dense, no odor. Primarily medium to fine sand with ~15% gravel to ~30 mm and 30% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, have a brown color, and have a strong reaction to HCI.					
-		CL	Sandy Lean Clay (265 - 267) Dry, very dense, no odor. Primarily silt and clay with ~30% medium to fine sand with ~5% gravel to 30 mm. The sand and gravel are angular to subangular. The fines have low plasticity and toughness, have a dark brown color, and do not react to HCl.					
-		CL	Sandy Lean Clay (267 - 279.5)  Dry to moist, very dense, no odor. Primarily silt and clay with ~25% medium to fine sand and ~10% gravel to 50 mm. The gravel is angular to subangular and the sand is angular to subangular to subrounded. The fines are nonplastic, have a dark brown color, and have no reaction to a weak reaction to HCl. Zone has large pieces of weathered granite throughout.					
270 — -								
- 275—								
		Tuff	Volcanic Tuff (279.5 - 280.5)  Dry, dense, no odor. Zone has white color and a weak reaction to HCl.There is a weak reaction to the					
=		SM	HCI.  Silty Sand with Gravel (280.5 - 295)  Dry, very dense, no odor. Primarily medium to fine			。 。 。 。		

Project Name:Yerington Second Step Hydrogeologic Framework Assessment								Project Number: 132025					
Soil I	Boring:	:	Monitoring Well: X Piezometer: Boring/Well Numb						nber: B/W-16 Sheet <u>16</u> of				
Depth (ft)	Elevation (ft)	lock Group Symbol		٨	faterial Description		Sample Name	Sample Location	Lithology	Well Construction	Remarks		
- - 285 — - -				sand with ~15% clay. The gravel is angular to subar nonplastic, have to strong reaction 3-inches) of tuff.	gravel to 30 mm and ~30's angular to subangular ar gular to subrounded. The a light brown color, and ha n to HCl. Zone has large p	% silt and nd the sand is e fines are ave a weak pieces (up to							
- 290 — - -													
295				Bottom of Boreh	ole at 295 feet below grou	nd surface.							